10/721,142
CA. RES. file STN. search 8/20/06, TGA

See saved files on STN. all "A"'s ~~Ext~~ searched

(FILE 'HOME' ENTERED AT 21:04:21 ON 20 AUG 2006)

FILE 'REGISTRY' ENTERED AT 21:04:29 ON 20 AUG 2006
L1 SCREEN 2067
L2 STRUCTURE UPLOADED
L3 QUE L2 AND L1
L4 11 S L3 FULL

FILE 'CAPLUS' ENTERED AT 21:06:47 ON 20 AUG 2006
S 143132-43-8/REG#

FILE 'REGISTRY' ENTERED AT 21:06:56 ON 20 AUG 2006
L5 1 S 143132-43-8/RN

FILE 'CAPLUS' ENTERED AT 21:06:57 ON 20 AUG 2006
L6 1 S L5

FILE 'REGISTRY' ENTERED AT 21:07:30 ON 20 AUG 2006
L7 SCREEN 2067
L8 STRUCTURE UPLOADED
L9 QUE L8 AND L7
L10 0 S L9 FULL
L11 SCREEN 2067
L12 STRUCTURE UPLOADED
L13 QUE L12 AND L11
L14 0 S L13 FULL
L15 SCREEN 2067
L16 STRUCTURE UPLOADED
L17 QUE L16 AND L15
L18 1 S L17 FULL
L19 SCREEN 2067
L20 STRUCTURE UPLOADED
L21 QUE L20 AND L19
L22 0 S L21 FULL
L23 SCREEN 2067
L24 STRUCTURE UPLOADED
L25 QUE L24 AND L23
L26 0 S L25 FULL
L27 SCREEN 2067
L28 STRUCTURE UPLOADED
L29 QUE L28 AND L27
L30 0 S L29 FULL
L31 SCREEN 2067
L32 STRUCTURE UPLOADED
L33 QUE L32 AND L31
L34 SCREEN 2067
L35 STRUCTURE UPLOADED
L36 QUE L35 AND L34
L37 0 S L33 FULL
L38 123 S L36 FULL
L39 33 S L38 AND 3/NC

FILE 'CAPLUS' ENTERED AT 21:23:43 ON 20 AUG 2006
S 136691-69-5/REG#

FILE 'REGISTRY' ENTERED AT 21:23:57 ON 20 AUG 2006
L40 1 S 136691-69-5/RN

FILE 'CAPLUS' ENTERED AT 21:23:57 ON 20 AUG 2006
L41 2 S L40
S 226922-20-9/REG#

FILE 'REGISTRY' ENTERED AT 21:24:09 ON 20 AUG 2006

```
L42             1 S 226922-20-9/RN

     FILE 'CAPLUS' ENTERED AT 21:24:10 ON 20 AUG 2006
L43             1 S L42

     FILE 'REGISTRY' ENTERED AT 21:26:30 ON 20 AUG 2006
L44               SCREEN 2067
L45               STRUCTURE UPLOADED
L46               QUE L45 AND L44
L47            18 S L46 FULL
L48             0 S L47 AND 3/NC

=>
```

L6 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2006 ACS on STN
AN 1992:512725 CAPLUS
DN 117:112725
TI Bibenzoxazole unit-containing polyethers
IN Matsuo, Shigeru; Kayano, Chikafumi
PA Idemitsu Kosan K. K., Japan
SO Jpn. Kokai Tokkyo Koho, 10 pp.
CODEN: JKXXAF
DT Patent
LA Japanese
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI JP 04089825	A2	19920324	JP 1990-206067	19900803
PRAI JP 1990-206067		19900803		

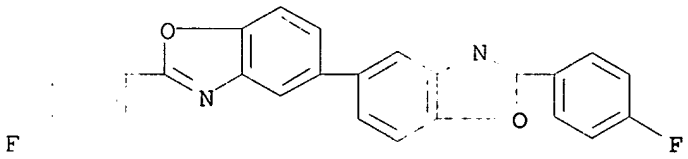
AB Polyethers are prepared from 2,2'-bis(4-halophenyl)bibenzoxoazoles, hydroquinone or 4,4'-biphenol, andin optionally comonomers such as 2,6-dichlorobenzonitrile and 4,4'-dichlorodiphenyl sulfone. Thus, 2,2'-bis(4-fluorophenyl)-5,5'-bibenzoxazole-4,4'-biphenol copolymer was prepared, with thermal decomposition beginning temperature 577° in air.

IT 143132-43-8P
RL: PEP (Physical, engineering or chemical process); PREP (Preparation); PROC (Process)
(manufacture of heat-resistant)

RN 143132-43-8 CAPLUS
CN Methanone, bis(4-chlorophenyl)-, polymer with [1,1'-biphenyl]-4,4'-diol and 2,2'-bis(4-fluorophenyl)-5,5'-bibenzoxazole (9CI) (CA INDEX NAME)

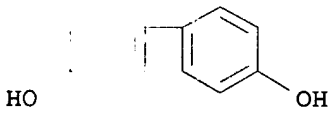
CM 1

CRN 127472-29-1
CMF C26 H14 F2 N2 O2



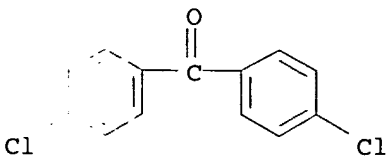
CM 2

CRN 92-88-6
CMF C12 H10 O2



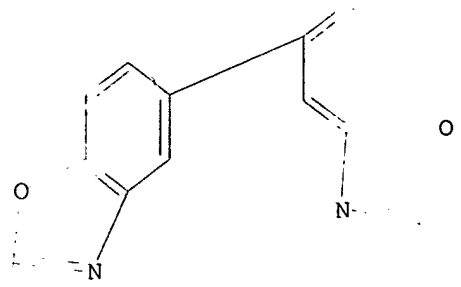
CM 3

CRN 90-98-2
CMF C13 H8 Cl2 O


O
C
Cl
Cl

=>

=> d l2
L2 HAS NO ANSWERS
L2 STR

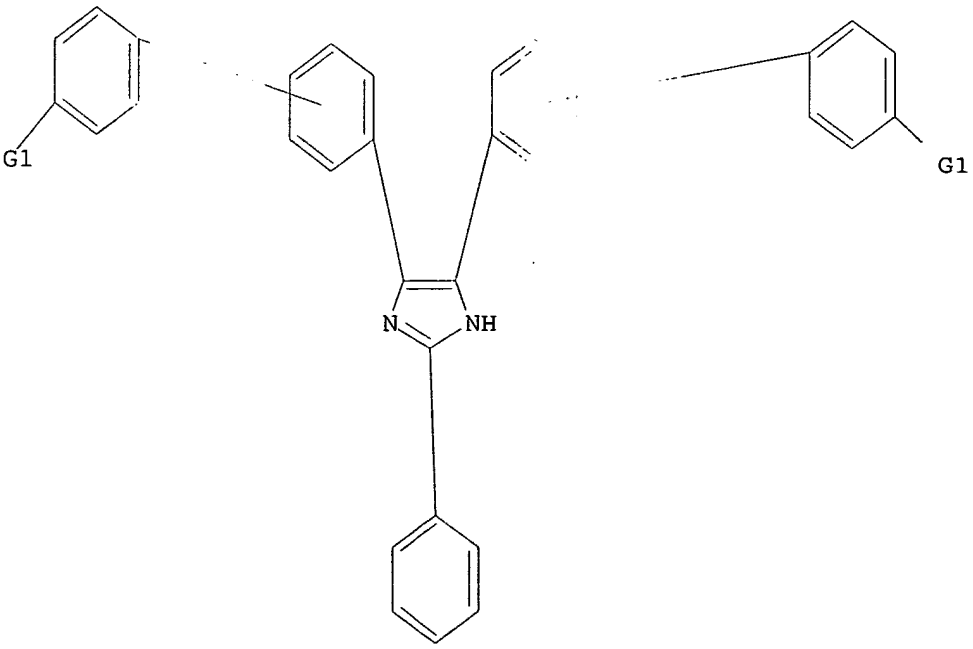


G1 Cl,F

G2 H,Me,CH2,Et,n-Pr,i-Pr,n-Bu,i-Bu,s-Bu,t-Bu,Ph,o-C6H4,m-C6H4,p-C6H4

Structure attributes must be viewed using STN Express query preparation.

=> d l8
L8 HAS NO ANSWERS
L8 STR

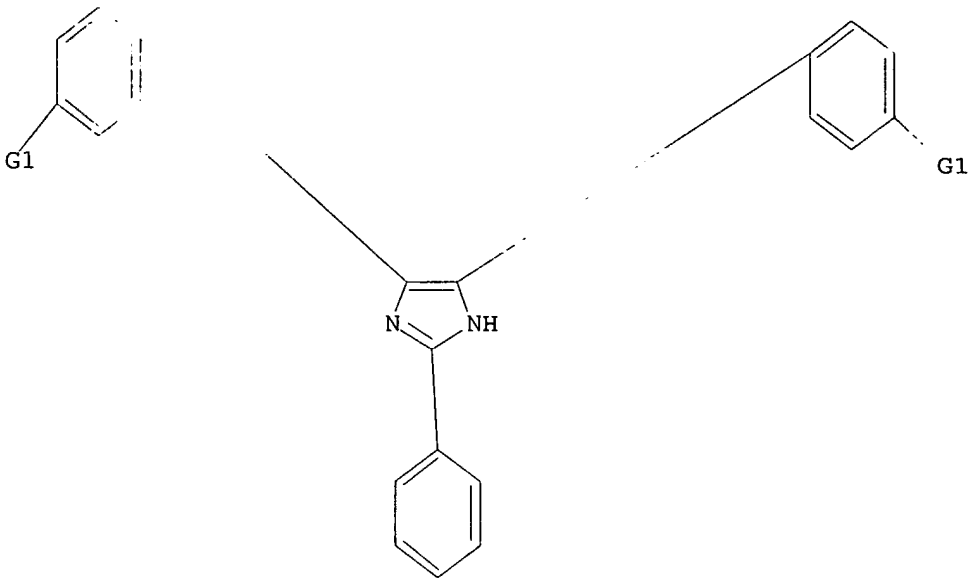


G1 Cl,F

G2 H,Me,CH2,Et,n-Pr,i-Pr,n-Bu,i-Bu,s-Bu,t-Bu,Ph,o-C6H4,m-C6H4,p-C6H4

Structure attributes must be viewed using STN Express query preparation.

=> d l12
L12 HAS NO ANSWERS
L12 STR



G1 Cl,F
G2 H,Me,CH2,Et,n-Pr,i-Pr,n-Bu,i-Bu,s-Bu,t-Bu,Ph,o-C6H4,m-C6H4,p-C6H4

Structure attributes must be viewed using STN Express query preparation.

=> d his

(FILE 'HOME' ENTERED AT 21:04:21 ON 20 AUG 2006)

FILE 'REGISTRY' ENTERED AT 21:04:29 ON 20 AUG 2006
L1 SCREEN 2067
L2 STRUCTURE UPLOADED
L3 QUE L2 AND L1
L4 11 S L3 FULL

FILE 'CAPLUS' ENTERED AT 21:06:47 ON 20 AUG 2006
S 143132-43-8/REG#

FILE 'REGISTRY' ENTERED AT 21:06:56 ON 20 AUG 2006
L5 1 S 143132-43-8/RN

FILE 'CAPLUS' ENTERED AT 21:06:57 ON 20 AUG 2006
L6 1 S L5

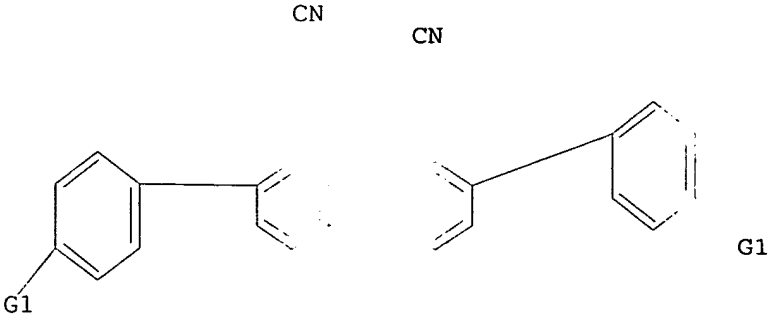
FILE 'REGISTRY' ENTERED AT 21:07:30 ON 20 AUG 2006
L7 SCREEN 2067
L8 STRUCTURE UPLOADED
L9 QUE L8 AND L7
L10 0 S L9 FULL
L11 SCREEN 2067
L12 STRUCTURE UPLOADED

```
L13              QUE L12 AND L11
L14            0 S L13 FULL

=>
```

0 S L29 FULL

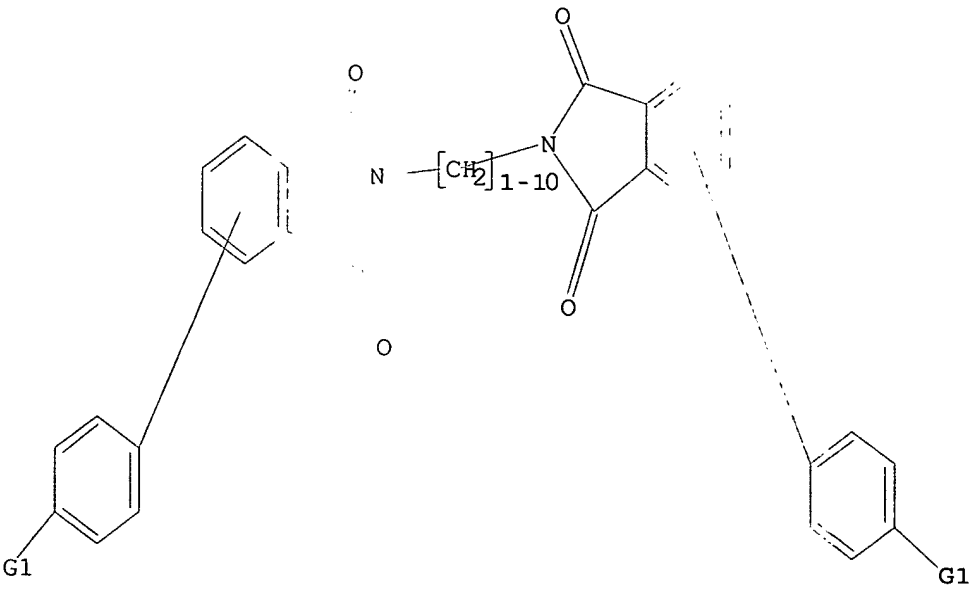
=> d l20
L20 HAS NO ANSWERS
L20 STR



G1 Cl,F

Structure attributes must be viewed using STN Express query preparation.

=> d l24
L24 HAS NO ANSWERS
L24 STR



G1 Cl,F
G2 H,Me,CH2,Et,n-Pr,i-Pr,n-Bu,i-Bu,s-Bu,t-Bu,Ph,o-C6H4,m-C6H4,p-C6H4

Structure attributes must be viewed using STN Express query preparation.

=> d l28
L28 HAS NO ANSWERS
L28 STR

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

Structure attributes must be viewed using STN Express query preparation.

```
=> d his

     (FILE 'HOME' ENTERED AT 21:04:21 ON 20 AUG 2006)

     FILE 'REGISTRY' ENTERED AT 21:04:29 ON 20 AUG 2006
L1             SCREEN 2067
L2             STRUCTURE UPLOADED
L3             QUE L2 AND L1
L4          11 S L3 FULL

     FILE 'CAPLUS' ENTERED AT 21:06:47 ON 20 AUG 2006
             S 143132-43-8/REG#

     FILE 'REGISTRY' ENTERED AT 21:06:56 ON 20 AUG 2006
L5           1 S 143132-43-8/RN

     FILE 'CAPLUS' ENTERED AT 21:06:57 ON 20 AUG 2006
L6           1 S L5

     FILE 'REGISTRY' ENTERED AT 21:07:30 ON 20 AUG 2006
L7             SCREEN 2067
L8             STRUCTURE UPLOADED
L9             QUE L8 AND L7
L10          0 S L9 FULL
L11            SCREEN 2067
L12            STRUCTURE UPLOADED
L13            QUE L12 AND L11
L14          0 S L13 FULL
L15            SCREEN 2067
L16            STRUCTURE UPLOADED
L17            QUE L16 AND L15
L18          1 S L17 FULL
L19            SCREEN 2067
L20            STRUCTURE UPLOADED
L21            QUE L20 AND L19
L22          0 S L21 FULL
L23            SCREEN 2067
L24            STRUCTURE UPLOADED
L25            QUE L24 AND L23
L26          0 S L25 FULL
L27            SCREEN 2067
L28            STRUCTURE UPLOADED
L29            QUE L28 AND L27
L30          0 S L29 FULL

=>
```

L41 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2006 ACS on STN
AN 2004:757063 CAPLUS
DN 141:280351
TI Polymer electrolyte material, polymer electrolyte parts, membrane-electrode laminate, and polymer electrolyte fuel cell
IN Adachi, Shinya; Izuhara, Daisuke; Nakamura, Masataka; Ito, Nobuaki
PA Toray Industries, Inc., Japan
SO PCT Int. Appl., 147 pp.
CODEN: PIXXD2
DT Patent
LA Japanese
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2004079844	A1	20040916	WO 2004-JP2894	20040305
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO				
	RW: BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
	JP 2004269599	A2	20040930	JP 2003-59569	20030306
	CA 2518414	AA	20040916	CA 2004-2518414	20040305
	EP 1619735	A1	20060125	EP 2004-717850	20040305
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, PL, SK				
	CN 1757130	A	20060405	CN 2004-80006115	20040305
	JP 2005174897	A2	20050630	JP 2004-121470	20040416
	US 2006180796	A1	20060817	US 2005-548110	20050906
PRAI	JP 2003-59569	A	20030306		
	JP 2003-116685	A	20030422		
	JP 2003-120115	A	20030424		
	JP 2003-386734	A	20031117		
	JP 2003-386735	A	20031117		
	WO 2004-JP2894	W	20040305		

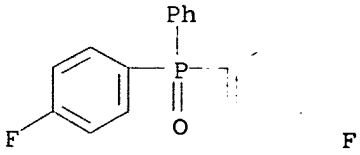
AB The electrolyte material has a nonfreezing water fraction (Rw1) of 20-100 in a hydrous state {Rw1 = [Wnf/(Wfc + Wnf)]; Wnf= amount of nonfreezing water per g of dry weight of polymer electrolyte material; and Wfc= amount of low m.p. water per g of dry weight of polymer electrolyte material}. The parts, the laminate, and the fuel cell use the above material. The fuel cell, using the above material, has excellent proton-conductivity and fuel cutoff properties and improved efficiency.

IT 136691-69-5D, sulfonated
RL: DEV (Device component use); USES (Uses)
(fuel cells containing polymer electrolyte materials with controlled nonfreezing water fraction for improved efficiency)

RN 136691-69-5 CAPLUS
CN Methanone, bis(4-fluorophenyl)-, polymer with 1,4-benzenediol and bis(4-fluorophenyl)phenylphosphine oxide (9CI) (CA INDEX NAME)

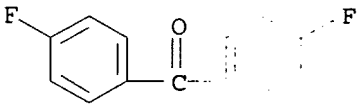
CM 1

CRN 54300-32-2
CMF C18 H13 F2 O P



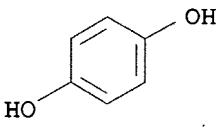
CM 2

CRN 345-92-6
CMF C13 H8 F2 O



CM 3

CRN 123-31-9
CMF C6 H6 O2



RE.CNT 16 THERE ARE 16 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

=>

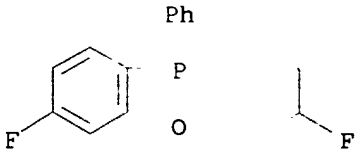
L41 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2006 ACS on STN
AN 2004:757063 CAPLUS
DN 141:280351
TI Polymer electrolyte material, polymer electrolyte parts, membrane-electrode laminate, and polymer electrolyte fuel cell
IN Adachi, Shinya; Izuhara, Daisuke; Nakamura, Masataka; Ito, Nobuaki
PA Toray Industries, Inc., Japan
SO PCT Int. Appl., 147 pp.
CODEN: PIXXD2
DT Patent
LA Japanese
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2004079844	A1	20040916	WO 2004-JP2894	20040305
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO				
	RW: BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
	JP 2004269599	A2	20040930	JP 2003-59569	20030306
	CA 2518414	AA	20040916	CA 2004-2518414	20040305
	EP 1619735	A1	20060125	EP 2004-717850	20040305
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, PL, SK				
	CN 1757130	A	20060405	CN 2004-80006115	20040305
	JP 2005174897	A2	20050630	JP 2004-121470	20040416
	US 2006180796	A1	20060817	US 2005-548110	20050906
PRAI	JP 2003-59569	A	20030306		
	JP 2003-116685	A	20030422		
	JP 2003-120115	A	20030424		
	JP 2003-386734	A	20031117		
	JP 2003-386735	A	20031117		
	WO 2004-JP2894	W	20040305		

AB The electrolyte material has a nonfreezing water fraction (Rw1) of 20-100 in a hydrous state {Rw1 = [Wnf/(Wfc + Wnf)]; Wnf= amount of nonfreezing water per g of dry weight of polymer electrolyte material; and Wfc= amount of low m.p. water per g of dry weight of polymer electrolyte material}. The parts, the laminate, and the fuel cell use the above material. The fuel cell, using the above material, has excellent proton-conductivity and fuel cutoff
properties and improved efficiency.
IT 136691-69-5D, sulfonated
RL: DEV (Device component use); USES (Uses)
(fuel cells containing polymer electrolyte materials with controlled nonfreezing water fraction for improved efficiency)
RN 136691-69-5 CAPLUS
CN Methanone, bis(4-fluorophenyl)-, polymer with 1,4-benzenediol and bis(4-fluorophenyl)phenylphosphine oxide (9CI) (CA INDEX NAME)

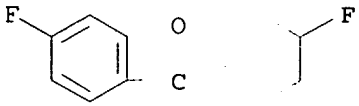
CM 1

CRN 54300-32-2
CMF C18 H13 F2 O P



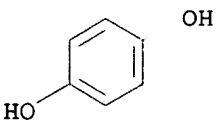
CM 2

CRN 345-92-6
CMF C13 H8 F2 O



CM 3

CRN 123-31-9
CMF C6 H6 O2



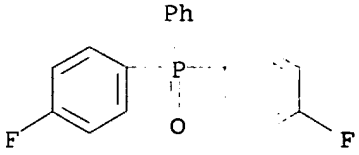
RE.CNT 16 THERE ARE 16 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L41 ANSWER 2 OF 2 CAPLUS COPYRIGHT 2006 ACS on STN
AN 1991:584482 CAPLUS
DN 115:184482
TI Poly(arylene ether ketone)-poly(arylene ether phosphine oxide) copolymer and blend compositions
AU Smith, C. D.; Gungor, A.; Keister, K. M.; Marand, H. A.; McGrath, J. E.
CS Dep. Chem., Virginia Polytech. Inst. and State Univ., Blacksburg, VA, 24061-0212, USA
SO Polymer Preprints (American Chemical Society, Division of Polymer Chemistry) (1991), 32(1), 93-5
CODEN: ACPPAY; ISSN: 0032-3934
DT Journal
LA English
AB Compatible blends of PEEK and poly(arylene ether phosphine oxide) (PEPO) were prepared which gave clear amorphous films when quenched from the melt. Random PEEK-PEPO copolymers were prepared via low-temperature polymerization technique
which showed glass temperature higher than PEEK.
IT 136691-69-5P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation and thermal characteristics of)
RN 136691-69-5 CAPLUS
CN Methanone, bis(4-fluorophenyl)-, polymer with 1,4-benzenediol and bis(4-fluorophenyl)phenylphosphine oxide (9CI) (CA INDEX NAME)

CM 1

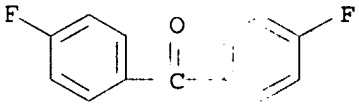
CRN 54300-32-2

CMF C18 H13 F2 O P



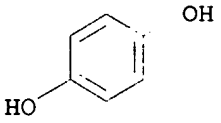
CM 2

CRN 345-92-6
CMF C13 H8 F2 O



CM 3

CRN 123-31-9
CMF C6 H6 O2



=>